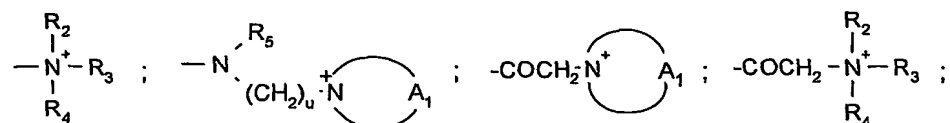


- 76 -

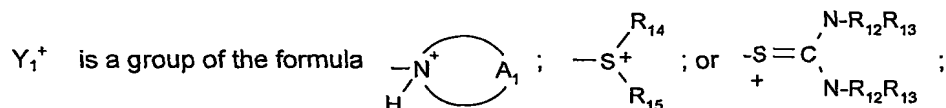
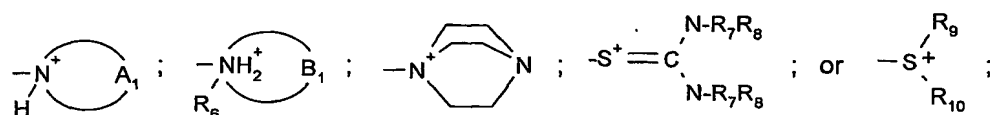
CLAIMS

1. A composition comprising at least one photocatalyst and at least one azo dyestuff and/or at least one triphenylmethane dyestuff, which produce a relative hue angle of 220 –
5 320° and wherein the dyestuff component is degraded when the composition is exposed to light.
2. A composition according to Claim 1 wherein the dyestuff component is degraded when the composition is exposed to sunlight.
- 10 3. A composition according to Claim 1 or 2 wherein the decrease rate of the azo dyestuff(s) and/or the triphenylmethane dyestuff(s) is at least 1 % per 2 hours.
4. A composition according to Claim 1, 2 or 3 wherein the photocatalyst is a water-soluble
15 phthalocyanine of Zn, Fe(II), Ca, Mg, Na, K, Al, Si(IV), P(V), Ti(IV), Ge(IV), Cr(VI), Ga(III), Zr(IV), In(III), Sn(IV) or Hf(VI).
5. A composition according to Claim 1, 2, 3 or 4 wherein the photocatalyst is a water-soluble phthalocyanine of the formula
20 (1a) $[\text{Me}]_q[\text{PC}][\text{Q}_1]_r^+ \text{A}_s^-$ or (1b) $[\text{Me}]_q[\text{PC}][\text{Q}_2]_r$
in which
PC is the phthalocyanine ring system;
Me is Zn; Fe(II); Ca; Mg; Na; K; Al-Z1; Si(IV); P(V); Ti(IV); Ge(IV); Cr(VI); Ga(III); Zr(IV);
In(III); Sn(IV) or Hf(VI);
25 Z₁ is a halide; sulfate; nitrate; carboxylate; alkanolate; or hydroxyl ion;
q is 0; 1 or 2;
r is 1 to 4;
Q₁ is a sulfo or carboxyl group; or a radical of the formula
-SO₂X₂-R₁-X₃⁺; -O-R₁-X₃⁺; or -(CH₂)_t-Y₁⁺;
30 in which
R₁ is a branched or unbranched C₁-C₈alkylene; or 1,3- or 1,4-phenylene;
X₂ is -NH-; or -N-C₁-C₅alkyl;
X₃⁺ is a group of the formula

- 77 -



or, in the case where $\text{R}_1 = \text{C}_1\text{-C}_8\text{alkylene}$, also a group of the formula



5 t is 0 or 1;

where in the above formulae

R_2 and R_3 independently of one another are $\text{C}_1\text{-C}_6\text{alkyl}$;

R_4 is $\text{C}_1\text{-C}_6\text{alkyl}$; $\text{C}_5\text{-C}_7\text{cycloalkyl}$ or NR_7R_8 ;

R_5 and R_6 independently of one another are $\text{C}_1\text{-C}_5\text{alkyl}$;

10 R_7 and R_8 independently of one another are hydrogen or $\text{C}_1\text{-C}_5\text{alkyl}$;

R_9 and R_{10} independently of one another are unsubstituted $\text{C}_1\text{-C}_6\text{alkyl}$ or $\text{C}_1\text{-C}_6\text{alkyl}$

substituted by hydroxyl, cyano, carboxyl, carb- $\text{C}_1\text{-C}_6\text{alkoxy}$, $\text{C}_1\text{-C}_6\text{alkoxy}$, phenyl, naphthyl or pyridyl;

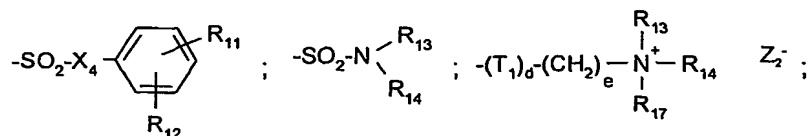
u is from 1 to 6;

15 A_1 is a unit which completes an aromatic 5- to 7-membered nitrogen heterocycle, which may where appropriate also contain one or two further nitrogen atoms as ring members, and

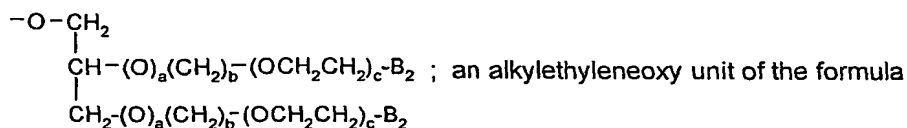
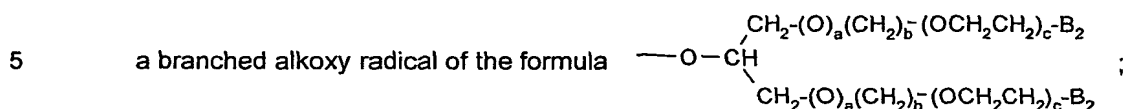
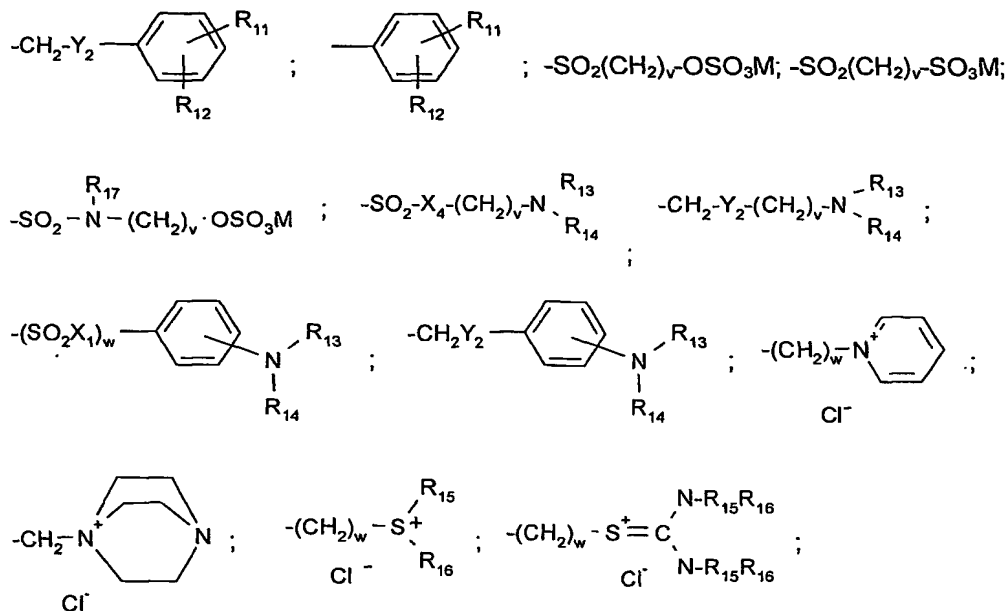
B_1 is a unit which completes a saturated 5- to 7-membered nitrogen heterocycle, which may where appropriate also contain 1 to 2 nitrogen, oxygen and/or sulfur atoms as ring members;

20

Q_2 is hydroxyl; $\text{C}_1\text{-C}_{22}\text{alkyl}$; branched $\text{C}_3\text{-C}_{22}\text{alkyl}$; $\text{C}_2\text{-C}_{22}\text{alkenyl}$; branched $\text{C}_3\text{-C}_{22}\text{alkenyl}$ and mixtures thereof; $\text{C}_1\text{-C}_{22}\text{alkoxy}$; a sulfo or carboxyl radical; a radical of the formula



- 78 -



$-(\text{T}_1)_d-(\text{CH}_2)_b(\text{OCH}_2\text{CH}_2)_a-\text{B}_3$ or an ester of the formula COOR_{18}

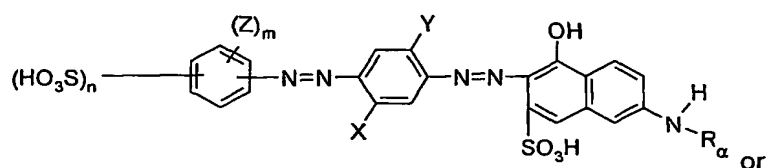
in which

- B_2 is hydrogen; hydroxyl; $\text{C}_1\text{—C}_{30}$ alkyl; $\text{C}_1\text{—C}_{30}$ alkoxy; $-\text{CO}_2\text{H}$; $-\text{CH}_2\text{COOH}$; $-\text{SO}_3^-\text{M}_1$; $-\text{OSO}_3^-\text{M}_1$; $-\text{PO}_3^{2-}\text{M}_1$; $-\text{OPO}_3^{2-}\text{M}_1$; and mixtures thereof;
- B_3 is hydrogen; hydroxyl; $-\text{COOH}$; $-\text{SO}_3^-\text{M}_1$; $-\text{OSO}_3^-\text{M}_1$ or $\text{C}_1\text{—C}_6$ alkoxy;
- M_1 is a water-soluble cation;
- T_1 is $-\text{O}-$; or $-\text{NH}-$;
- X_1 and X_4 independently of one another are $-\text{O}-$; $-\text{NH}-$ or $-\text{N—C}_1\text{—C}_5$ alkyl;
- 15 R_{11} and R_{12} independently of one another are hydrogen; a sulfo group and salts thereof; a carboxyl group and salts thereof or a hydroxyl group; at least one of the radicals R_{11} and R_{12} being a sulfo or carboxyl group or salts thereof,
- Y_2 is $-\text{O}-$; $-\text{S}-$; $-\text{NH}-$ or $-\text{N—C}_1\text{—C}_5$ alkyl;

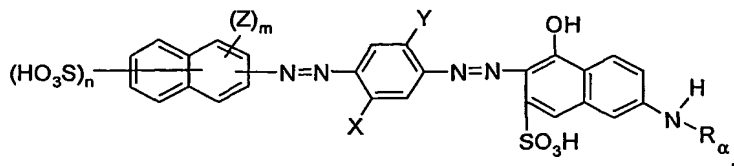
- 79 -

- R_{13} and R_{14} independently of one another are hydrogen; C_1 - C_6 alkyl; hydroxy- C_1 - C_6 alkyl; cyano- C_1 - C_6 alkyl; sulfo- C_1 - C_6 alkyl; carboxy or halogen- C_1 - C_6 alkyl; unsubstituted phenyl or phenyl substituted by halogen, C_1 - C_4 alkyl or C_1 - C_4 alkoxy; sulfo or carboxyl or R_{13} and R_{14} together with the nitrogen atom to which they are bonded form a saturated
- 5 5- or 6-membered heterocyclic ring which may additionally also contain a nitrogen or oxygen atom as a ring member;
- R_{15} and R_{16} independently of one another are C_1 - C_6 alkyl or aryl- C_1 - C_6 alkyl radicals;
- R_{17} is hydrogen; an unsubstituted C_1 - C_6 alkyl or C_1 - C_6 alkyl substituted by halogen, hydroxyl, cyano, phenyl, carboxyl, carb- C_1 - C_6 alkoxy or C_1 - C_6 alkoxy;
- 10 R_{18} is C_1 - C_{22} alkyl; branched C_3 - C_{22} alkyl; C_1 - C_{22} alkenyl or branched C_3 - C_{22} alkenyl; C_3 - C_{22} glycol; C_1 - C_{22} alkoxy; branched C_3 - C_{22} alkoxy; and mixtures thereof;
- M is hydrogen; or an alkali metal ion or ammonium ion,
- Z_2^- is a chlorine; bromine; alkylsulfate or aralkylsulfate ion;
- a is 0 or 1;
- 15 b is from 0 to 6;
- c is from 0 to 100;
- d is 0; or 1;
- e is from 0 to 22;
- v is an integer from 2 to 12;
- 20 w is 0 or 1; and
- A^- is an organic or inorganic anion, and
- s is equal to r in cases of monovalent anions A^- and is $\leq r$ in cases of polyvalent anions, it being necessary for A_s^- to compensate the positive charge; where, when $r \neq 1$, the radicals Q_1 can be identical or different,
- 25 and where the phthalocyanine ring system may also comprise further solubilising groups.

6. A composition according to any one of the preceeding claims wherein the azo dyestuff is a compound of formulae



- 80 -



wherein

X and Y, independently of one another, are each hydrogen; C₁-C₄-alkyl or C₁-C₄-alkoxy,

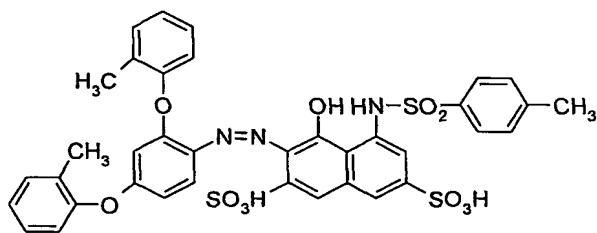
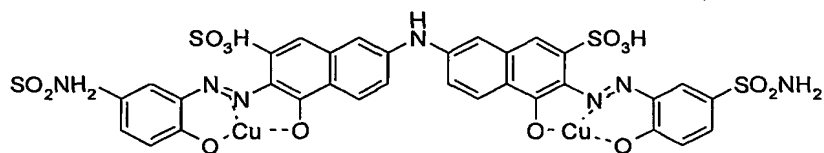
R_α is hydrogen or aryl,

5 Z is C₁-C₄-alkyl; C₁-C₄-alkoxy; halogen; hydroxyl or carboxyl,

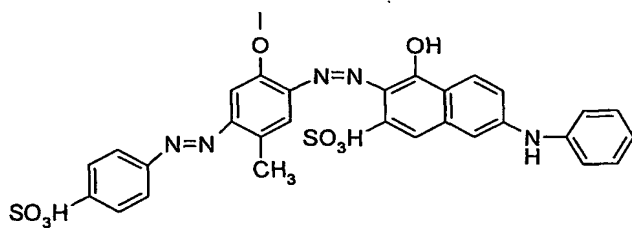
n is 1 or 2 and

m is 0, 1 or 2, as well as the corresponding salts thereof and mixtures thereof.

7. A composition according to any one of the preceding claims wherein the azo dyestuff
10 is a compound of formula

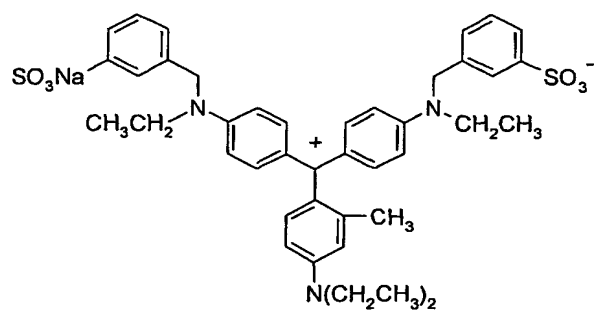
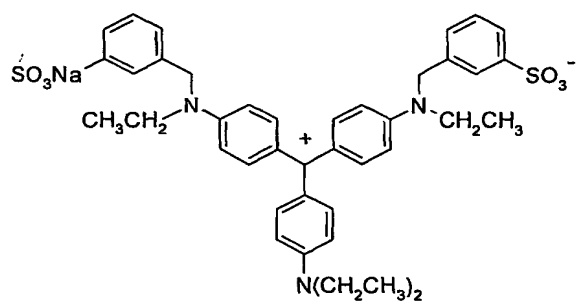
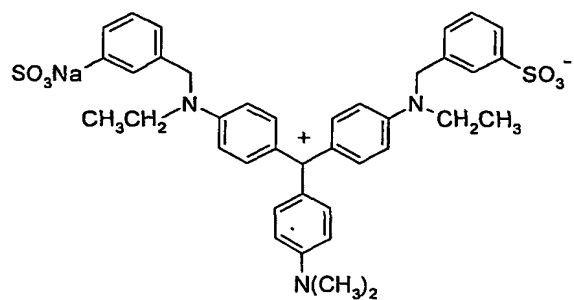


and/or

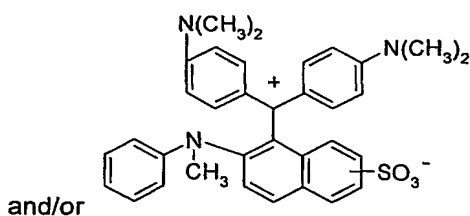
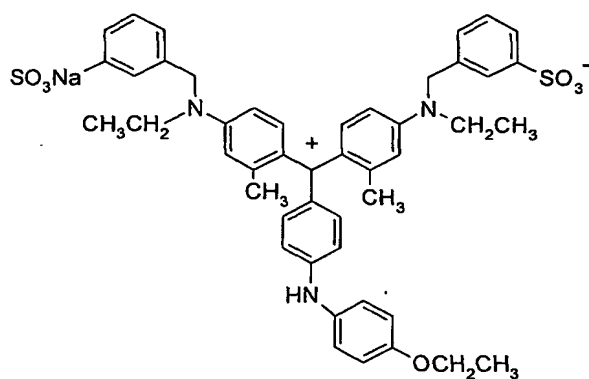
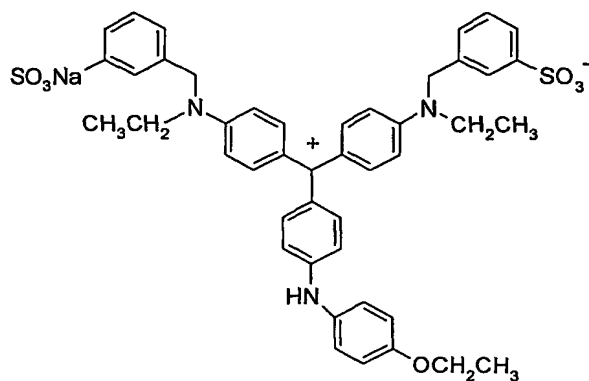


15 8. A composition according to any one of the preceding claims wherein the triphenylmethane dyestuff is a compound of formula

- 81 -



- 82 -



9. A composition according to any one of the preceeding claims wherein at least one
5 FWA is comprised.
10. A granular formulation comprising a composition according to claims 1 – 9.
11. A granular formulation according to claim 9 comprising
- | | | |
|----|-----------------------|--|
| 10 | a) from 2 to 75 wt-% | of at least one water-soluble phthalocyanine compound and at least one azo dyestuff and/or at least one triphenylmethane dyestuff as defined in claim 1 - 9, based on the total weight of the granulate, |
| 15 | b) from 10 to 95 wt-% | of at least one further additive, based on the total weight of the granulate, and |
| | c) from 0 to 15 wt-% | water, based on the total weight of the granulate. |

- 83 -

12. A liquid formulation comprising a composition according to claims 1 – 9.
13. A detergent formulation comprising
- 5 I) from 5 to 70 wt-% A) of at least one anionic surfactant and/or B) at least one non-ionic surfactant, based on the total weight of the washing agent formulation,
- II) from 5 to 60 wt-% C) of at least one builder substance, based on the total weight of the washing agent formulation,
- 10 III) from 0 to 30 wt-% D) of at least one peroxide and, optionally, at least one activator, based on the total weight of the washing agent formulation, and
- IV) from 0.001 to 1 wt-% E) of at least one granulate which contains
- 15 a) from 2 to 75 wt-% of at least one water-soluble phthalocyanine compound and at least one azo dyestuff and/or at least one triphenylmethane dyestuff as defined in claim 1 - 9, based on the total weight of the granulate,
- b) from 10 to 95 wt-% of at least one further additive, based on the total weight of the granulate, and
- c) from 0 to 15 wt-% water, based on the total weight of the granulate,
- 20 V) from 0 to 60 wt-% F) of at least one further additive, and
- VI) from 0 to 5 wt-% G) water.
14. A softener composition comprising
- 25 (a) a composition comprising at least one photocatalyst and at least one azo dyestuff and/or at least one triphenylmethane dyestuff, as defined in claims 1 - 9, and
- (b) a fabric softener.
15. A shading process using a composition as claimed in claims 1 – 14.
- 30 16. Textile treated with a composition as claimed in claims 1 - 14.